SGL34-20 THRU SGL34-60

0.8 AMP SURFACE MOUNT SCHOTTKY BARRIER RECTIFIERS

GW

FEATURES

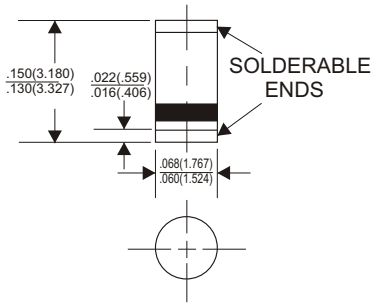
* Ideal for surface mount applications
* Easy pick and place
* Built-in strain relief
* Low forward voltage drop

MECHANICAL DATA

* Case: Molded plastic
* Epoxy: UL 94V-0 rate flame retardant
* Metallurgically bonded construction
* Polarity: Color band denotes cathode end
* Mounting position: Any
* Weight: 0.0036 grams

VOLTAGE RANGE
20 to 60 Volts
CURRENT
0.8 Ampere

MINI MELF /GL-34



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature uniess otherwies specified.
Single phase half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%.

TYPE NUMBER	SGL34-20	SGL34-30	SGL34-40	SGL34-50	SGL34-60	UNITS
Maximum Recurrent Peak Reverse Voltage	20	30	40	50	60	V
Maximum RMS Voltage	14	21	28	35	42	V
Maximum DC Blocking Voltage	20	30	40	50	60	V
Maximum Average Forward Rectified Current at Ta=75°C	0.8					A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	10					A
Maximum Instantaneous Forward Voltage at 0.8A	0.50			0.70		V
Maximum DC Reverse Current Ta=25°C	0.5					mA
at Rated DC Blocking Voltage Ta=100°C	10					mA
Typical Junction Capacitance (Note1)	80					pF
Typical Thermal Resistance R JL (Note 2)	75					°C/W
Operating Temperature Range T_J	-65 — +125					°C
Storage Temperature Range T_{STG}	-65 — +150					°C

NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal Resistance Junction to Lead.

RATING AND CHARACTERISTIC CURVES (SGL34-20 THRU SGL34-60)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

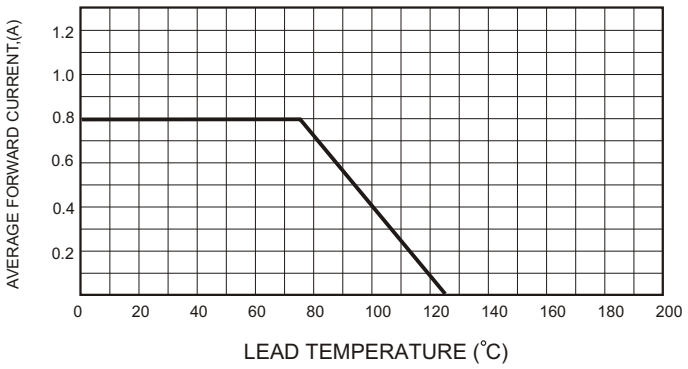


FIG.2-TYPICAL FORWARD CHARACTERISTICS

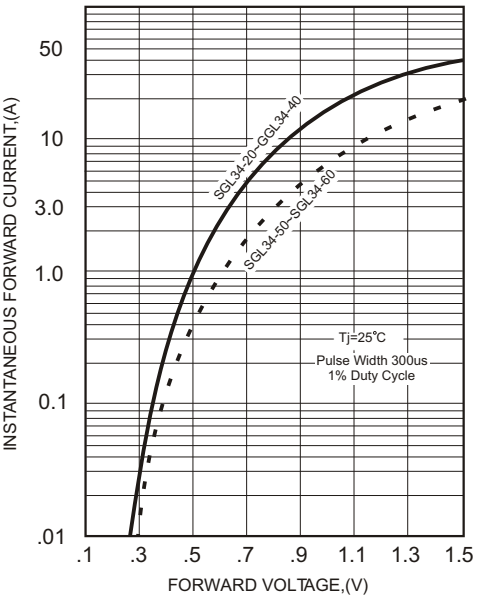


FIG.3-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

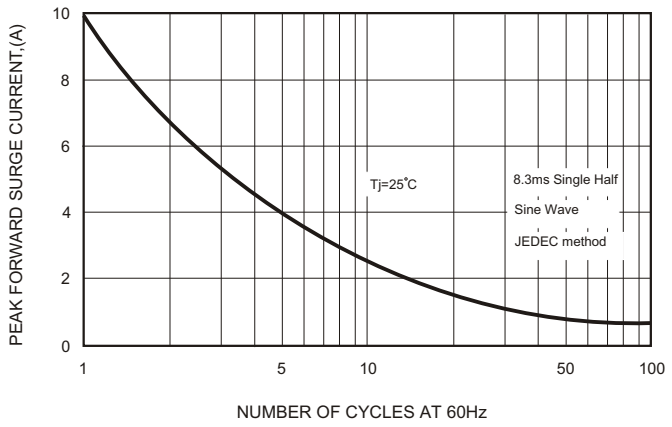


FIG.4-TYPICAL JUNCTION CAPACITANCE

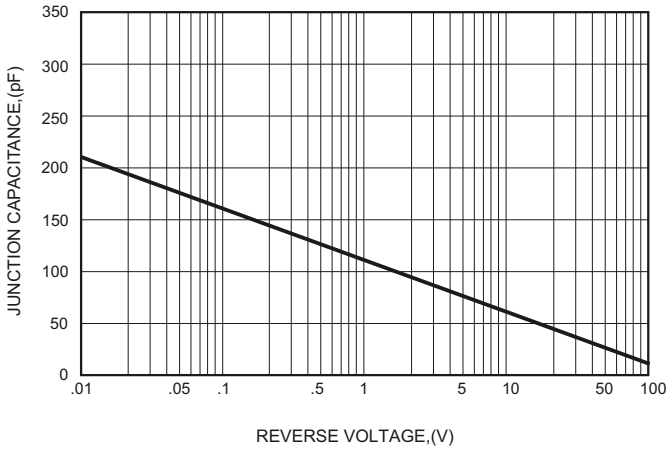


FIG.5 - TYPICAL REVERSE CHARACTERISTICS